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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,580	10/20/2003	Gaetan Heno	7887-90352	2123

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EXAMINER

TRAN, HOAN H

ART UNIT	PAPER NUMBER
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2852

DATE MAILED: 06/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/689,580

Applicant(s)

HENO, GAETAN

Examiner

Hoan H. Tran

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-106 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-15 is/are allowed.
- 6) ☒ Claim(s) 16-25, 28, 29, 31, 33, 44, 50-55, 58, 60-62, 64, 75, 81, 82, 88, 93, 96-102, 104 and 105 is/are rejected.
- 7) ☒ Claim(s) 26, 27, 30, 32, 34-43, 45-49, 56, 57, 59, 63, 65-74, 76-80, 83-87, 89-92, 94, 95, 103 and 106 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>10/03 & 11/04</u> . | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Objections

1. Claims 16-21, 23-29, 51-57, 60, 61, 81, 88, 93, 94, 96-105 are objected to because of the following informalities:

- Claim 16, line 9, change "first surface" to --first contact surface--.
- Claim 16, line 10, before "surface" (both occurrences) insert --contact--.
- Claims 17 and 20, line 1, change "first component" to --first cleaning component--.
- Claims 18 and 19, line 1, change "second component" to --second cleaning component--.
- Claim 21, lines 1-2, change "first and second components" to --first and second cleaning components--.
- Claim 23, line 2, change "first and second components" to --first and second cleaning components--.
- Claim 23, line 3, change "first component" to --first cleaning component--.
- Claims 24 and 25, line 2, change "first and second components" to --first and second cleaning components--.
- Claims 24 and 25, line 3, change "second component" to --second cleaning component--.
- Claim 26, line 1, change "second component" to --second cleaning component--.
- Claim 26, lines 1-2, change "first component" to --first cleaning component--.
- Claim 27, line 1, change "first component" to --first cleaning component--.
- Claim 27, line 2, before "component" (both occurrences) insert --cleaning--.

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- Claim 27 is unclear; i.e., Fig. 2 shows second cleaning component [14] positioned on top of the first cleaning component [16].
- Claim 28, lines 2-3, before "component" (both occurrences) insert --cleaning--.
- Claim 29, line 1, change "second component" to --second cleaning component--.
- Claim 29, line 2, before "surface" insert --contact--.
- Claims 51-53, line 1, before "component" insert --cleaning--.
- Claim 54, line 2, before "surface" insert --contact--.
- Claim 55, lines 2-3, before "component" (both occurrences) insert --cleaning--.
- Claim 56, lines 2-3, before "component" (both occurrences) insert --cleaning--.
- Claim 57, lines 1-2, before "component" (all occurrences) insert --cleaning--.
- Claim 60, line 2, before "component" (both occurrences) insert --cleaning--.
- Claim 61, line 1, before "component" insert --cleaning--.
- Claim 61, line 2, before "surface" insert --contact--.
- Claim 81, line 10, change "first surface" to --first contact surface--.
- Claim 81, line 11, change "second surface" to --second contact surface--.
- Claim 81, lines 11-12, change "first surface" to --first contact surface--.
- Claim 88, line 8, change "the feed" to --the media feed--.
- Claim 93, line 9, change "first surface" to --first contact surface--.
- Claim 93, line 10, before "surface" (both occurrences) insert --contact--.
- Claims 94 and 96, line 1, replace "he" with --The--.
- Claim 97, line 9, before "component" insert --cleaning--.
- Claim 97, line 10, before "component" (both occurrences) insert --cleaning--.

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- Claim 97, line 15, change "first surface" to --first contact surface--.
- Claim 97, line 16, change "second surface" to --second contact surface--.
- Claim 97, lines 16-17, change "first surface" to --first contact surface--.
- Claims 98-101, line 1, before "component" insert --cleaning--.
- Claim 102, line 1, change "said cleaner" to --said media cleaner--.
- Claim 102, lines 1-2, change "first and second components" to --first and second cleaning component--.
- Claim 102, line 2, change "second component" to --second cleaning component--.
- Claims 103& 104, line 2, before "component" (both occurrences) insert --cleaning--.
- Claim 105, line 1, before "component" insert --cleaning--.
- Claim 105, line 2, before "surface" insert --contact--.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 43, 48, 74 and 79 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- Claim 43 recites the limitations "said second component" in lines 1 and 3. There is insufficient antecedent basis for these limitations in the claim.

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- Claim 48 recites the limitation "said exit angle" in line 1. There is insufficient antecedent basis for this limitation in the claim.
- Claim 74 recites the limitations " second component" in lines 1 and 2. There is insufficient antecedent basis for these limitations in the claim.
- Claim 74 recites the limitation "said first component" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim.
- Claim 79 recites the limitation "said exit angle" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 16-25, 28, 29, 31, 33, 44, 50-55, 58, 60-62, 64, 75, 81, 82, 88, 93, 96, 97-102, 104 and 105 are rejected under 35 U.S.C. 103(a) as being unpatentable over Korbonski ['073] in view of Nishiwaki ['469].

Korbonski discloses a sheet cleaning apparatus [Fig. 6] with cartridge roller assembly [Abstract] comprising a frame [Fig. 5], two pairs of sheet-contacting cleaning rollers having surface tack [52, 54 and 56, 58], and means having surface tack which greatly exceeds the surface tack of the sheet-contacting cleaning rollers [64, 66] for cleaning said sheet-contacting

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cleaning rollers [Col. 2, lines 7-32; Col. 3, lines 30-40]. However, Korbonski does not disclose the sheet cleaning apparatus is attachable to the printer.

Nishiwaki, an applicant's cited prior art, discloses an image forming apparatus comprising a sheet cleaning device [Col. 1, lines 6-45].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the sheet cleaning apparatus disclosed by Korbonski attachable to an image forming apparatus as taught by Nishiwaki for the purpose of removing the dust or contaminant on the paper surface before printing.

Regarding claim 81, the claimed method steps are inherent from the product structure.

Allowable Subject Matter

6. Claims 1-15 are allowed.
7. Claims 26, 27, 30, 32, 34-43, 45-49, 56, 57, 59, 63, 65-74, 76-80, 83-87, 89-92, 94, 95, 103 and 106 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph and/or the objection(s), set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Prior Art

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- Logwig et al. [US 2005/0084315] disclose a substrate cleaning apparatus.
- Helma et al. [US 2005/0052491] disclose a card cleaning assembly.

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- Lien [US 2003/0164982] discloses a card cleaner roller assembly.
- Meier et al. ['141] disclose a card cleaner roller assembly.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoan H. Tran whose telephone number is (571) 272-2141. The examiner can normally be reached from 8:30 AM - 5:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Arthur Grimley can be reached at (571) 272-2136. The central office fax number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



HHT
June 22, 2005

**HOAN TRAN
PRIMARY EXAMINER**